

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A scheduling controller, comprising:
request receiving means for receiving a plurality of processing requests according to request type;
start time calculating means for calculating, according to a number of processing requests received by the request receiving means and according to the types thereof of the requests received, a scheduling start time relative to a predetermined scheduling end time ~~predetermined~~; and
scheduling means for scheduling processing requests received by the request receiving means from the scheduling start time calculated by the start time calculating means to the scheduling end time.

pro 2. (Currently Amended) A scheduling controller, comprising:
request receiving means for receiving processing request requests from a plurality of terminal stations, each of the processing request being a transmission band pass request and including a transmission request and a data length thereof;
start time calculating means for calculating, according to the processing request received by the request receiving means, a scheduling start time relative to a predetermined scheduling end time ~~predetermined~~;
scheduling means for allocating processing requests, received by the request receiving means from the scheduling start time calculated by the start time calculating means to the scheduling end time, to time slots in a frame; and
reporting means for reporting information of time slot allocation by the scheduling means to the terminal stations.

3. (Currently Amended) A scheduling controller comprising:
request receiving means for receiving a plurality of processing requests;

start time calculating means for calculating, according to a number of processing requests received by the request receiving means and types thereof, a scheduling start time relative to a predetermined scheduling end time;

scheduling means for scheduling processing request received by the request receiving means from the scheduling start time calculated by the start time calculating means to the scheduling end time ~~in accordance with claim 1 or 2, further including; and~~

storage means for storing the predetermined scheduling end time ~~predetermined~~; ;
wherein the start time calculating means calculates, according to the processing requests received by the request receiving means, a scheduling start time relative to the scheduling end time stored in the storage means.

4. (Currently Amended) A scheduling controller comprising:
request receiving means for receiving a plurality of processing requests;
start time calculating means for calculating, according to a number of processing requests received by the request receiving means and types thereof, a scheduling start time relative to a predetermined scheduling end time;

scheduling means for scheduling processing request received by the request receiving means from the scheduling start time calculated by the start time calculating means to the scheduling end time ~~in accordance with claim 1, 2, or 3, further including~~

processing time storage means for storing scheduling time ~~beforehand~~ determined beforehand for each of the processing requests,

wherein the start time calculating means calculates a total time of scheduling time according to scheduling time corresponding to each processing request type stored in the processing time storage means and calculates, according to the processing requests received by the request receiving means, a scheduling start time relative to the scheduling processing end time.

5. (Currently Amended) A scheduling method, comprising the steps of:
receiving a plurality of processing requests according to request type;
calculating, according to a number of processing requests received by the request receiving step and according to the types thereof of requests received, a scheduling start time relative to a predetermined scheduling end time ~~predetermined~~; and

scheduling processing requests received by the request receiving step from the scheduling start time calculated by the start time calculating step to the scheduling end time.

6. (Currently Amended) A scheduling method, comprising the steps of: receiving processing requests from a plurality of terminal stations, each of the processing request requests being a transmission band pass request and including a transmission request and a data length thereof;

calculating, according to the processing requests received by the request receiving step, a scheduling start time relative to a predetermined scheduling end time ~~predetermined~~;

allocating processing requests, received by the request receiving step from the scheduling start time calculated by the start time calculating step to the scheduling end time, to time slots in a frame; and

reporting information of time slot allocation by the scheduling step to the terminal stations.

bo 7. (Currently Amended) A scheduling controller in accordance with claim 2, further including storage means for storing the predetermined scheduling end time ~~predetermined~~, wherein the start time calculating means calculates, according to the processing requests received by the request receiving means, a scheduling start time relative to the scheduling end time stored in the storage means.

8. (Currently Amended) A scheduling controller in accordance with claim 2, further including processing time storage means for storing scheduling time determined beforehand ~~determined~~ for each of the processing requests, wherein the start time calculating means calculates total time of scheduling time according to scheduling time corresponding to each processing request type stored in the processing time storage means and calculates, according to the processing requests received by the request receiving means, a scheduling start time relative to the scheduling processing end time.

9. (Currently Amended) A scheduling controller in accordance with claim 3, further including processing time storage means for storing scheduling time determined beforehand ~~determined~~ for each of the processing requests, wherein the start time calculating

means calculates total time of scheduling time according to scheduling time corresponding to each processing request type stored in the processing time storage means and calculates, according to the processing requests received by the request receiving means, a scheduling start time relative to the scheduling processing end time.

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10. (New) A scheduling controller in accordance with claim 2, wherein the start time calculating means calculates the scheduling start time according to the processing request received by the request receiving means and types thereof.

11. (New) A scheduling method according to claim 6, wherein calculating the scheduling start time includes calculating according to the processing request received by the request receiving means and types thereof.
